

# Laser Patterned Transparent Conductive Substrates:

## ITO and FTO glass, IMI PET



### Transparent, conductive coatings on glass

- Electrical conductivity and optical transparency
- Homogeneously flat ITO, FTO and IMI coatings
- Low roughness
- Uniform transmission

### Laser cut properties

Typically 10-20 µm width, no shunts, no spikes, no debris

### General ITO glass properties

- OLED grade, polished, very low roughness, high transmission
- Standard conductivity range 7-20 Ohm/sq
- Glass thickness 0.7-1.1 mm

### General FTO glass properties

- Low roughness
- Standard conductivity range: 7-13 Ohm/sq
- Glass thickness 1.8-3 mm
- >80% transmission

### Patterning of other conductive coatings or other structuring tasks

Get in touch with us

High quality substrates for optoelectronic applications

Patterned/Structured by femtosecondlaser

Liquid crystal displays (LCD) technology

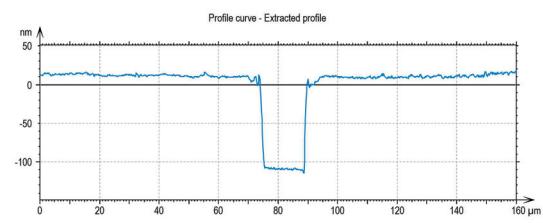
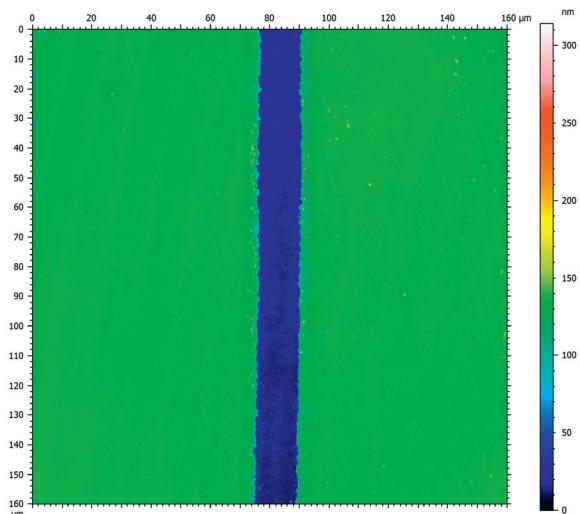
Organic light emitting diodes (OLED)

Organic photovoltaic and perovskite (solar) cells

Electrochemistry

Flat antennas for mobile communication

Conducting glass/Transparent electrodes



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The fastest available patterned substrates, delivery time from one week for customized substrates

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Fast adaption of pattern,  
no lithographic masks needed,  
no additional setup costs

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Lines down to 10 µm thin, and min.  
spacing 20 µm

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Laser structured conductive layers  
with highest precision, thin cuts,  
completely isolating

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No large ablated areas ->  
homogeneous surface improves  
solution processed layer quality

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Substrate size up to 200 x 200 mm<sup>2</sup>

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Whole kits with evaporation masks,  
aperture masks, encapsulation  
cover slips, sample holders and  
electronic measurement systems  
available

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